

JZ-500 orange flexible, orange cores, control cable for interlocking purposes, meter marking



Technical data

- Special PVC control cable for interlocking purposes
- Requirements adapted to DIN VDE 0245, 0281, 0293, 0295
- **Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of special PVC Z 7225
- Cores orange with continuous black numbering according to DIN VDE 0293
- JZ-version with green-yellow earth core: 3 cores and above
- OZ-version without green-yellow earth core
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1 and HD 21.1
- Colour orange (RAL 2003)
- with meter marking, change-over in 2009

Properties

- Extensively oil resistant
- Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air, as control cable according EN 60204 part 1 and VDE 0113 part 1. As per recommendation of the specified standards the insulated conductors of control current circuits should be coloured orange, when they are used for interlocking purposes. These control circuits are supplied with an external power and remain active under current when the main switch is disconnected or switched off.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
10537	2 x 1	5,6	19,2	60,0	17
10539	3 x 1	6,1	29,0	72,0	17
10538	3 G 1	6,1	29,0	72,0	17
10541	4 x 1	6,6	38,4	86,0	17
10540	4 G 1	6,6	38,4	86,0	17
10542	5 G 1	7,5	48,0	104,0	17
10544	2 x 1,5	6,4	29,0	70,0	16
10545	3 G 1,5	6,8	43,0	90,0	16
10546	4 G 1,5	7,6	58,0	109,0	16
10547	5 G 1,5	8,3	72,0	131,0	16

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
10747	3 G 2,5	8,3	72,0	148,0	14
10748	4 G 2,5	9,2	96,0	178,0	14
10749	5 G 2,5	10,1	120,0	221,0	14

Dimensions and specifications may be changed without prior notice. (RA01)